BIBLIOGRAPHY SECTION

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INDEXES

INTRODUCTION

During this year some substantial changes were introduced into the Bibliography Section of the *Journal of Chromatography* (*J. Chromatogr.*, Vol. 88, No. 1 (1974) B1). One of the most fundamental changes is the indexing of the Bibliography Section during the current year. This index will comprise Author Index, Subject Index and Index of Types of Compounds Chromatographed. The reason for this change is mainly speeding up the rate of information delivery. Moreover this new type of indexing allows the presentation of data about the methodology and the type of compounds chromatographed which are not included in the current sections published every month. It has to be stressed that the indexes are not worked out from the title of the quoted paper only, but that for indexing abstracts of each paper, available to us, were used.

Because the methodological part differs substantially in individual chromatographic techniques, we decided to subdivide the Subject Index according to the individual methods into the following parts: Gas chromatography (index-shortening G), column chromatography (C), paper chromatography (P), thin-layer chromatography (T), and electrophoresis (E). In the Index of Types of Compounds Chromatographed all types of methods are indicated at individual entries by the appropriate shortening. In entries which contain a lot of chromatographic papers we made a further division into techniques and applications. The criteria for the classification and for the selection of entries are not absolutely unified which is the result of the different nature of individual chromatographic techniques and, of course, the result of the personal approach to these problems by those workers who actually did the job. At this particular place we would like to stress the fact that this is the first index of this type in the *Journal of Chromatography*. We hope to merge the different viewpoints in the next year and to present the readers with the unifying concept of the whole index.

We hope that this index will help the readers to get a fast orientation about papers published about a certain type of compounds and will also supply enough information on methodical news which may otherwise get lost in the vast number of papers published to-day.

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Author Index

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P: 2747
T: 2747, 3341, 3865, 4898, 5360
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Zirconium, *see* Cations, inorganic, analytical group III

TABLE 825

CC SEPARATION OF SUBSTITUTED ANILINES ON AN *IN SITU* LOADED POROUS SILICA MICROSPHERE COLUMN

(J. J. Kirkland and C. H. Dirks, Jr., *Anal. Chem.*, 45 (1973) 1781)

Column:	250 mm × 3.2 mm I.D.
Sorbent:	5–6 μ porous microsilica microspheres (~350 Å pores) with ~30% β,β'-oxydipropionitrile (BOP). Coating of the porous silica microsphere column: 30 ml of dry dichloromethane was passed at a flow-rate of 4 ml/min through the column, prepacked with the above sorbent. 60 ml of a 500 mg/ml solution of BOP in dichloromethane were pumped through the column at 5000 p.s.i. and at a flow-rate of 1.5 ml/min. The carrier was then changed to BOP-saturated *n*-hexane and the column conditioned with about 80 ml of this solvent at 0.3 ml/min (1000 p.s.i.).
Mobile phase:	*n*-Hexane, saturated with BOP.
Operating conditions:	Flow-rate, 1.4 cm/sec; 1200 p.s.i. Sample size, 6 μl.
Detection:	By optical density recording.

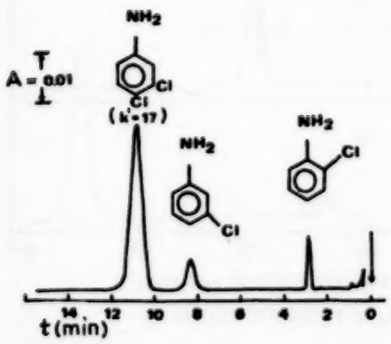

Table 825.

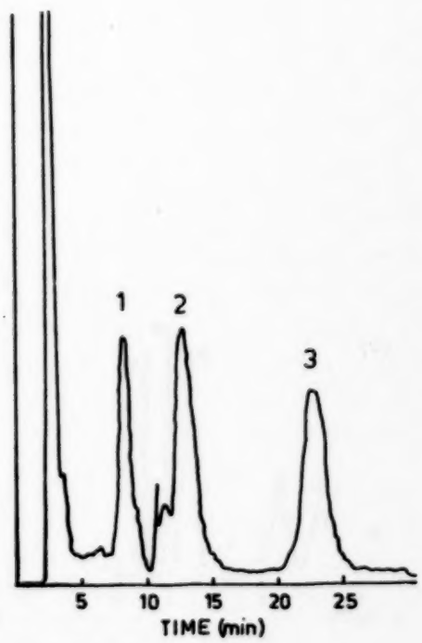

Table 826.

TABLE 826

CC SEPARATION OF DIELDRIN, DDD AND DDT

(R. E. Lovins, S. R. Ellis, G. D. Tolbert and C. R. McKinney, *Anal. Chem.*, 45 (1973) 1555)

Apparatus:	DuPont (Wilmington, Del., U.S.A.) Model 830 liquid chromatograph.
Sorbent:	DuPont ETH column (permanently bonded).
Mobile phase:	*n*-Heptane–isopropanol (7:3).
Operating conditions:	1000 p.s.i., ambient temperatures.
Detection:	By refraction.
Notes:	1 = Dieldrin; 2 = DDD; 3 = DDT.

TABLE 827

CC SEPARATION OF AROMATIC HYDROCARBONS ON ALUMINA

(H. Engel and H. Wiedemann, *Anal. Chem.*, 45 (1973) 1644)

Column:	50 cm × 2 mm I.D.
Sorbents:	Alumina N 18 Woelm (Eschwege, G.F.R.), activity II (a). Alumina N 18 Woelm, activity III (b).
Mobile phase:	*n*-Hexane.
Operating conditions:	Flow-rate, 2.1 cm/sec; 80 atp. Sample size, 0.1–0.3 mg of each compound separated.
Detection:	By refraction, f.s.d. 8×10^{-5} *RI* unit.
Notes:	(a) 1 = *n*-Hexane; 2 = benzene; 3 = naphthalene; 4 = acenaphthene; 5 = trypticene; 6 = phenanthrene; 7 = anthracene. (b) 1 = *n*-Hexane; 2 = benzene; 3 = biphenylene; 4 = *o*-terphenylene; 5 = *m*-terphenylene.

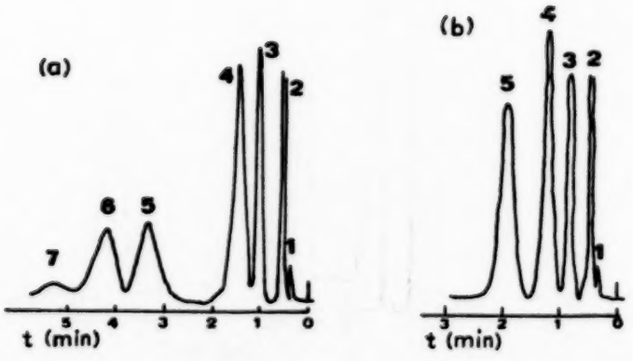

Table 827.

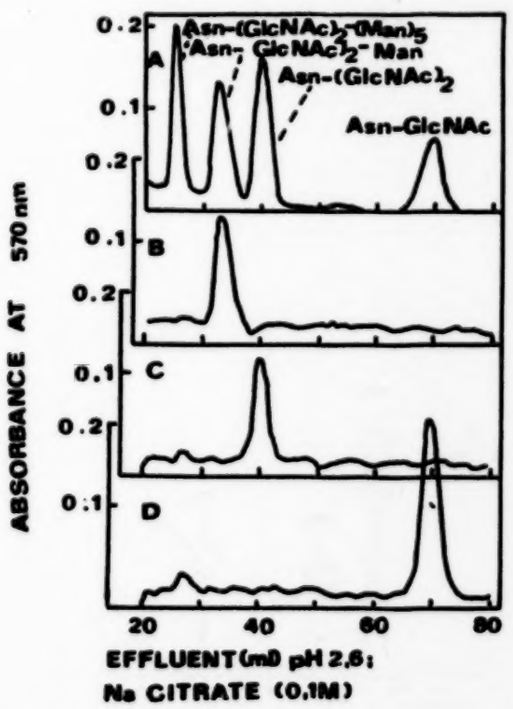

Table 828.

TABLE 828

CC SEPARATION OF GLYCOSYL ASPARAGINE DERIVATIVES

(M. T. Kimmel and T. H. Plummers, Jr., *Anal. Biochem.*, 49 (1972) 270)

Column:	0.9 × 56 cm.
Ion exchanger:	Aminex H (Dowex 50-X8) or Beckman UR 30 resin gave identical results.
Buffer:	0.1 *M* sodium citrate, pH = 2.6, containing 3% 1-propanol.
Operating conditions:	Running temperature 53°, flow-rates 40 and 20 ml/h for sample line and ninhydrin line, respectively.
Detection:	Ninhydrin detection recorded at 570 nm.

TABLE 829

CC SEPARATION OF DEOXYADENOSINE AND ADENOSINE

(J. G. Cory, F. A. Russell and M. M. Mansell, *Anal. Biochem.*, 55 (1973) 452)

Column:	60 × 5 mm.
Ion exchanger:	Dowex 1–borate columns (X8, 200–400 mesh).
Buffers:	1 m*M* sodium borate. At the arrows, the eluant was changed to 0.05 *M* NaCl to elute the adenosine from the columns. The elution of deoxyadenosine is shown by the closed circles and that of adenosine by the closed squares.
Operating conditions:	Fractions collected, 2 ml.
Detection:	By absorbance measurement or by radioactivity counting.

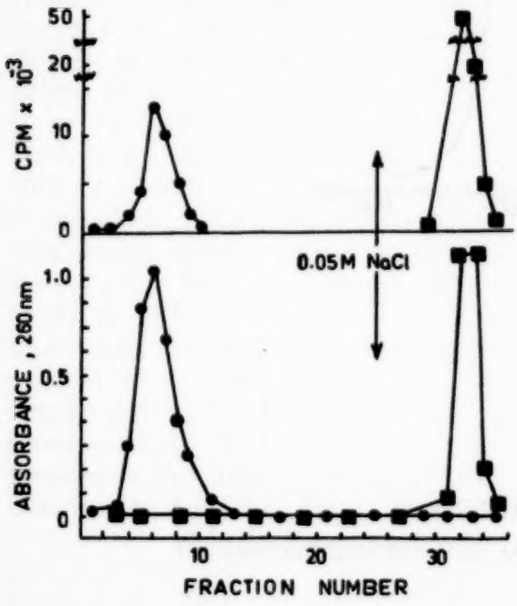

TABLE 830

CC OF PHOTOCHEMICAL ISOMERS OF ERGOSTEROL

(R. Mermet-Bouvier, *Anal. Chem.*, 45 (1973) 585)

Column:	1 × 56 cm.
Sorbent/Ion exchanger:	Silica gel containing 12% alumina.
Mobile phase:	Diethyl ether.
Operating conditions:	Flow-rate within conventional limits.
Detection:	By optical density recording.
Notes:	Tox_2A = $Toxisterol_2$ A; P = previtamin; L = lumisterol; T = tachysterol; E = ergosterol.

(Continued on p. D68)

TABLE 830 *(continued)*

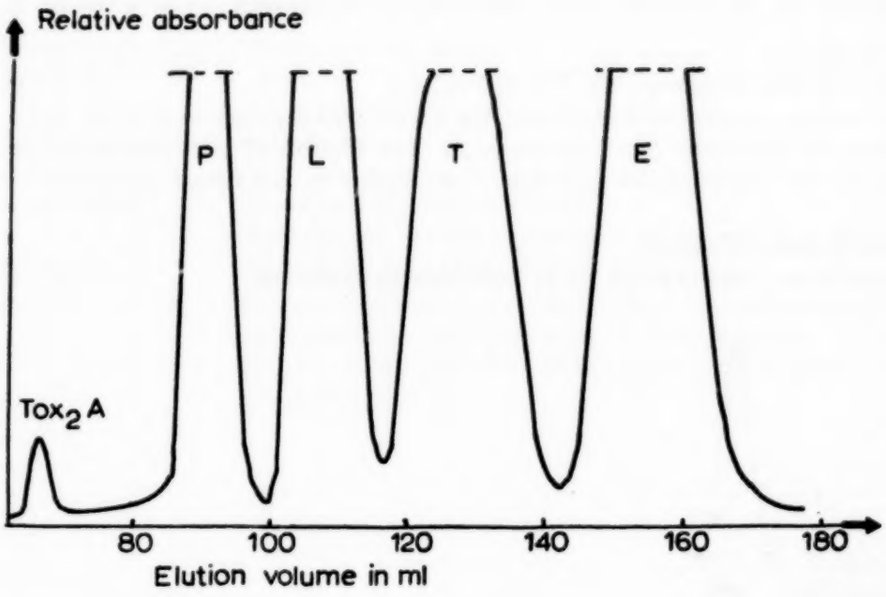

TABLE 831

GLC ANALYSIS OF FREE PHYTOSTEROLS USING SP-400

(R. B. Salama (Faculty of Pharmacy, Khartoum, Sudan), personal communication)

Column: 1.2 m × 2 mm I.D. U-shaped glass.
Support material: Chromosorb W, 100–120 mesh.
Stationary phase: 7.5% SP-400 (chlorophenylmethyl silicone; Supelco, Bellafonte, Pa., U.S.A.).
Temperatures: Column, 240°.
Detector, 290°.
Carrier gas: Helium, flow-rate 50 ml/min.
Data given in: r = Relative retention value, given with respect to cholestane, which was used as internal standard.
N = Number of theoretical plates.
R = Resolution.

Sterol	*r*	*N*	*R*
Cholestane	1.0	—	
			3.4
Cholesterol	2.0	1184	
			1.0
Ergosterol	3.23	1504	
			1.4
Campesterol	2.57	1440	
			0.85
Stigmasterol	2.77	1690	
			1.1
β-Sitosterol	3.15	896	
			1.0
α-Spinasterol	3.58	1128	

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Journal of Chromatography (incorporating *Chromatographic Reviews*)

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JOURNAL	88/1 88/2	89/1 89/2	90/1	90/2 91	92/1 92/2	93/1 93/2	94 95/1	95/2 96/1	96/2	97/1 97/2	99 100/1 100/2	
REVIEWS*			98/1						98/2	98/3		

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2 L. R. Snyder, *Principles of Adsorption Chromatography*, Marcel Dekker, New York, 1968, p. 201.
3 R. D. Marshall and A. Neuberger, in A. Gottschalk (Editor), *Glycoproteins*, Vol. 5, Part A, Elsevier, Amsterdam, 2nd ed., 1972, Ch. 3, p. 251.

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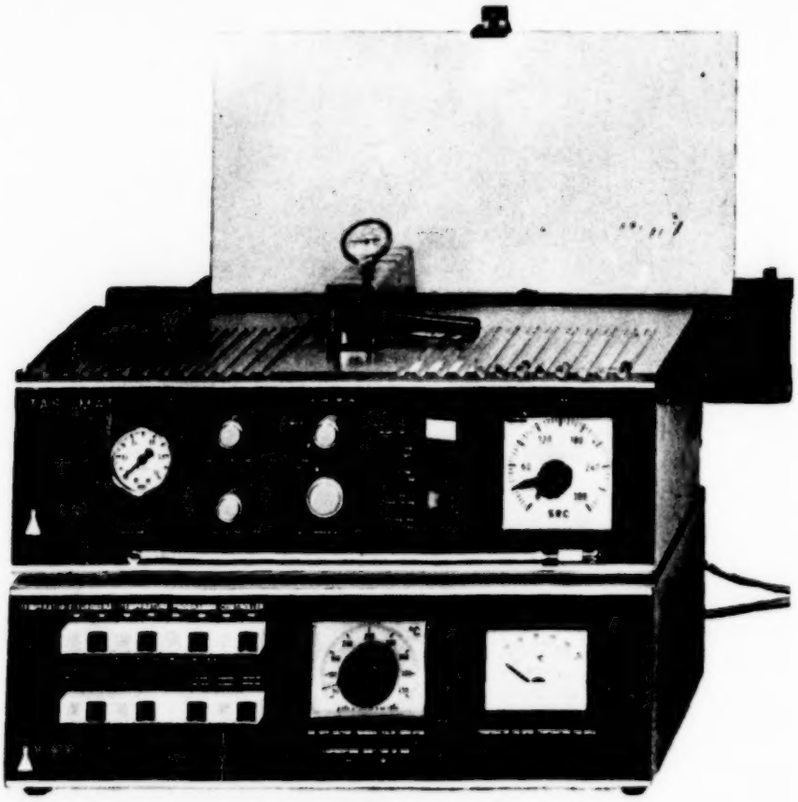

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